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February 7, 1958

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Dear []

(INC)

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As discussed with [] during his last visit [] we are enclosing a sketch showing the method we intend to use for interconnection between the AT-3 and the RR/D-11. The same principle applies to the TP-3.

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A Cannon Type DE-9P connector is incorporated. The plug design has the following features:

- A. All projecting parts of the plug have broad surfaces which prevent puncture of carrying cases, brief cases, etc.
- B. All projecting parts of the plug have non-critical surfaces which will protect the connector and not interfere with proper connection should they become dented or scuffed from usage.
- C. The pin field of the connector is of minimum area, and readily guarded by a housing of small size. Guarding of the pin field is accomplished on the projecting part by the sturdy surrounding plate. The mating part is buried within the transmitter and has the connector shell as further protection.
- D. Mechanical alignment of the plug is principally determined by two guide pins and a key pin. Excellent stability and resistance to twist are thus obtained.
- E. The key pin has a different position for each plug and receptacle pair, and serves to prevent accidental improper unit connection.

Included on the sketch of the complete plug assembly mounted on the RR/D-11 are the locating dimensions for the plug, and the pin connections for the Transmitter-Receiver connector. All inputs and outputs of the receiver are made through the connector, including antenna and audio. This is obviously necessary if interunit cables are to be avoided. If desired,

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parallel connections for antenna and audio can be retained, for use when the receiver is not a part of an AS-3 system.

Please note that no operating controls should be mounted on the side of the receiver or printer upon which the plug is mounted, as this side is flush against the transmitter and will not be accessible.

A sample of the complete plug assembly will be sent to your office by 21 February.

Very truly yours,



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✓ JAD/RFP:as
Enc. Sketch AF580207-1

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